

Title (en)
STABILIZED SIGHTING DEVICES FOR VEHICLES

Publication
EP 0031781 B1 19840229 (FR)

Application
EP 80401869 A 19801224

Priority
FR 7931721 A 19791226

Abstract (en)
[origin: US4393597A] A stabilized sighting device for use on a carrier comprises an outer unit mounted for rotation about a bearing axis which may be parallel to the yaw axis of the carrier. An intermediate unit is mounted for rotation on the outer unit about an elevation axis and a sight unit provided with a gyro is mounted on the intermediate unit for rotation within a predetermined angular range about an inner axis located in a plane perpendicular to the elevation axis. First and second motors are provided for driving the intermediate unit and the sight unit about the intermediate and inner axes, respectively and are controlled by first and second servo loop circuits receiving signals from the gyroscope. A detector delivers a signal representative of the deviation of the inner unit from the canonical position and a position reproducing loop controlled by the detector actuates a motor driving the outer unit. The configuration of the outer gimbal is preferably reversed for decreasing the perturbing torques.

IPC 1-7
F41G 3/22; **G02B 23/16**

IPC 8 full level
F41G 3/22 (2006.01); **G02B 27/64** (2006.01)

CPC (source: EP US)
F41G 3/22 (2013.01 - EP US); **G02B 27/644** (2013.01 - EP US)

Cited by
FR2689969A1; FR2560677A1; EP0268778A3; EP0256592A3; FR2738925A1; EP0197710A3; EP0068932A1; EP0235944A3; FR2656077A1; FR2525761A1; EP0628780A1; FR2706599A1; US5483865A; EP0424238A1; FR2653546A1

Designated contracting state (EPC)
DE GB IT SE

DOCDB simple family (publication)
EP 0031781 A1 19810708; **EP 0031781 B1 19840229**; DE 3066782 D1 19840405; FR 2472735 A1 19810703; FR 2472735 B1 19850816; US 4393597 A 19830719

DOCDB simple family (application)
EP 80401869 A 19801224; DE 3066782 T 19801224; FR 7931721 A 19791226; US 22089580 A 19801229